

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claim 1 (withdrawn): A method for producing a chip-substrate connection, which comprises:

performing one of alloying and brazing a chip to a substrate using a solder containing at least two components with at least two metal-containing constituents including a first constituent X containing a precious metal and a second constituent Y being consumed in a soldering operation by one of reacting and being dissolved by materials being joined, and the solder having a hypereutectic concentration of the second constituent Y.

Claim 2 (withdrawn): The method according to claim 1, which comprises providing the second constituent Y of the solder with tin having the hypereutectic concentration.

Claim 3 (withdrawn): The method according to claim 1, which comprises using a gold-tin compound (AuSn) as the solder with a hypereutectic Sn concentration.

Claim 4 (withdrawn): The method according to claim 3, which comprise providing the gold-tin compound a tin concentration being greater than 20% by weight.

Claim 5 (withdrawn): The method according to claim 1, which comprises depositing the solder on a rear side of the chip.

Claim 6 (withdrawn): The method according to claim 5, which comprises providing the solder with a composition by weight of the first constituent X to the second constituent Y of 70 to 30.

Claim 7 (withdrawn): The method according to claim 5, which comprises applying the solder with a thickness of from about 1 μm to about 2 μm to the rear side of the chip.

Claim 8 (withdrawn): The method according to claim 1, which comprises using gold as the precious metal.

Claim 9 (withdrawn): The method according to claim 1, which comprises depositing the solder on a rear side of the chip by sputtering.

Claim 10 (withdrawn): The method according to claim 5, which comprises applying the solder by sputtering with a thickness of about 1.5 μm to the rear side of the chip.

Claims 11-14 (cancelled).

Claim 15 (currently amended): A semiconductor component, comprising:

a solder containing at least two components with at least two metal-containing constituents including a first constituent X being formed of a precious metal and a second constituent Y being consumed during a soldering operation by one of reacting and being dissolved in materials which are to be joined, and said solder having a hypereutectic concentration of said second constituent Y;

a substrate; and

a semiconductor chip having a rear side and an adhesive or diffusion barrier provided on said rear side;

said semiconductor chip being secured to said substrate by one of alloying and brazing using said solder to form a direct chip-substrate connection;

said solder containing a gold-tin compound (AuSn) having a composition by weight of Au to Sn of 70 to 30 and forming a layer having a thickness of from about 1 μm to about 2 μm .

Claims 16-17 (cancelled).